Target Math Class 5 Term 1

- L. Rom in numerals
- 2. Notation and place value
- (S digit numbers in Pakistani and International way)
- 3. Addition
- 4. Subtraction
- 5. Multiplication
- 6. Division
- 7. Simplification
- 8. Divisibility
- 9. Factors
- 9. Multiples Multiples
- 10. Common Multiples

Common Multiples

11. Prime and Composite numbers

p # 1-5 (from Book Get Ahead 5) p #001, 002, 003(from target)

p #005(from target)
p #006(from target)
p #007, 008(from target)
p #009, 0010, 0011(from target)
p # 6-13 (from Book Get Ahead 5)
p #6012(from target)
p #0013(from target)
p # 14-21 (from Book Get Ahead 5)
p # 22 -23(from Book Get Ahead 5)
p # 2014(from target)
p # 24(from Book Get Ahead 5)
p #0014(from target)
p # 25-27(from Book Get Ahead 5)

Write first ten multiples of 14,8,6,15,9,7.

Write first ten multiples of these pairs of numbers and find their common multiples.

- 2. 12 and 18
- 3. 10 and 5
- 4. 12 and 8

Thinking even b-i-g-g-e-r: 8-digit numbers

What happens when we add 1 more to 9999999 (the biggest 7-digit number)?

On our Pakiblani place-velue chait. something very special happens: we run out of lacs, and need to add a new house or period: the House of Crores:

TCC	Li	ics	Thou	sands	T	Unit	Š
1.5		1	TTh	Th	H	T	U
	9	9	9	9	9	9	9
ttt	0	0					1
		0	0	0	0	0	0

'C' means 'crores' and 'TC' (the next column to the left) means 'ten crores'—a giant-sized cumber with 9 digits! +

Write the numition of mest

8 00.00 000 a gray

- 1. 4.00.00.000
- 2. 6.00.00.000
- **3** 2.00.00.000
- 4. 5 00 00.000
- **5.** 9 00.00,000



Write the number:

 Draw crows 3,00,00,000

eight crore orone entiseven crore

.1 two crore

rame cross

One crore is the smallest 8-digit number in the Pakistani piace-value system.

After we issen to the news on the radio, or water TV programmes about Pakistan's educantly or read new spaper articles, we will often most this word

it helps us to think in terms of very large

If one crore people con a ser harmon me Min ster speak, he or she was the very happy



The following list gives the total number of votes won in seven constituencies in Pakistan Place each number in Pakistani poriods Which constituency has the largest number of voters?

> Constituency A. 386219 3,86,219

Constituency B 208678

Constituency Commission

Constituency D: 2712()()

Constituency E: 29475.

* Constituency F 269802

Constituency G 125389

Here is another 8-digit number placed in Pakistani periods:

Its number name is five crore, twelve lac, sixty-four thousand, eight hundred and twenty-one.

Place these numbers in Pakistani periods and write their nan es:

> 4.06.85,012 four-crore Six lac, eighty-five thousand and twelve

67300159

30846002

73052814

1:221120

58964371

B. Write the numbers, placing your commas carefully:

> five crore, one lac, twenty thousand and sixteen 5.01.20.015

- three crore, eleven lac, forty-two thousand, three hundred
- 2 eight store, thin, lac, nineteen thousand, four hundred and Sixty-che
- four crore, eighty-six lat fig, thousand and ninety-two
- six crore, forty-nine thousand, seven hundred and three
- seven crore, three hundred and fifty-six

Write the value of the ringed digit

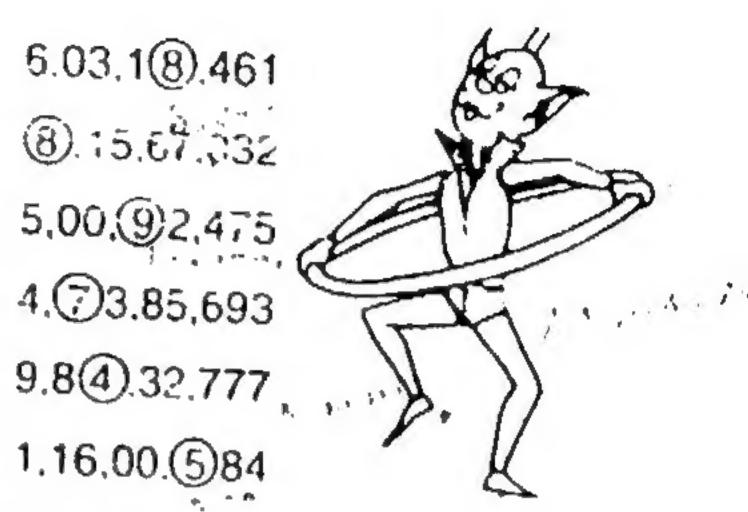
4.100,62,938

6.03,1(8),461

8.15.67.332

5,00,(9)2,475

1.16,00. (5) 84



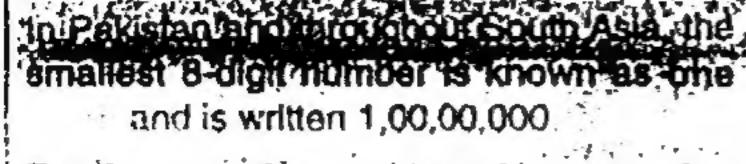
Write in expanded form:

5.26,49 032 5,00,00,000 + 20,00,000 + 6,00,000 + 10,000 + 9,000 + 30 + 2

- 6,18.30.596
- 7.05.12.847
- 1,10,95,738
- 4,00 67,143
- 5,94,03,075

1 3

One crore equais ten million



But if we use the word 'crore' in most other parts of the world, nooddy will understand what we mean!



On our manage significativative chart, the smallest 8-digit humber is called the military and is shown like this:

1.5%	?**;	Th	20540	1:5		Ur ta	
	1.7	-17h	T Th	Th	Н	T	U
1	2,	0	0	0.	0	0	0

A Write the number names:

46.030,100 forty-six million thirty thousand, one hundred

- 1 38,100,580
- 2 51.069,120
- 3. 19,405,328
- **4** 72.517.134
- 5 60 174,005

B Flace these in periods, first in the Pakistani way, second in the international way:

40396425

38106259

12450031

41965478

73812096

26794502

C. Sinte the numbers, placing your sommas parefully

and twent, were 18,004,027

- tnirty-one million five hundred and ten thousand six hundred and three
- forty-nine million one hundred and three thousand five hundred and eighty-two
- seventy-eight million four hundred thousand eight hundred and twelve
- 4. twenty million six hundred and thirty-seven thousand five hundred and fifty-true
- 6. eighty-eight million and fifteen

Adding very big numbers with 7 or 8 digits is simple, provided we are careful to write our columns neatly and carefully, and to work

When we finish adding we must also remember to put in our periods.

Copy and complete:

- 1,984.623 6 23,569,231 + 2.015,346 5,694,325
- 4.468.571 2 365,149
- 3. 3,407,862 8. 15,650.192 1.374,109 + 73,025 999
- 24.67,333 9. 3.48.35 117 18,05,436 +1.05.62.431
- 5. 37 91 604 10. 8.27.54.380

- Write in vertical form and complete (be careful with your columns!):
 - 1. 3.564,121 ÷ 2,473,565
 - 2. 82.14.960 12.28,340
 - **3**. 4.693,775 + 5,184,962
 - 4. 16.49,827 + 49.16,782
 - 5. 2.655,132 + 2.984 + 34,103
 - **6.** 1.030,499 + 38.324 + 5,687
 - 7. 39.862 + 410.364 + 2.003.145
 - 8. 465 + 2.49.00.321 + 1.092
 - 9. 5.62,43.018 + 32 + 51,673
 - 10. 84.65,321 + 7,495 + 1,18.626

Using utgrambers: subtraction

humbers, we're enways careful with our columns. 2.8, 4.9,7, Z.8 4.1 3, 9 4 2, 0 9 6 1 2, 5 5 5, 1 6 8

A Copy and complete:

- 1. 1.496.953 6. 45,647,329 - 205,343 - 14,538.142
- 2. 4,875,648 7. 1,64,00,825 - 1,232,537 - 79,36,172
- 3. 28,64,932 **8.** 50,100,032 - 14,18,725 - 28,052,164
- 4. 51.95,438 9. 2,70,03,029 - 38,41,654 -1,08,16,420
- 5. 6.032,159 to. 30,000,000 - 3.470,538 - 15,457,628

B: Write in vertical form and complete:

- 1. 85,231,569 16,829,293
- 2. 98,486,243 72,639,958
- 3. 2,00,00,360 38 745
- 4. 4,16.05.152 1.78.34 018
- **5**. **45**,003,620 37,598,192
- **6.** 3.175,002 698,435
- 7. 5,62,41,650 2,18,64,137
- 8 4.000,351 25,689
- **9**. 32.034.629 1,465,117
- 10 8.60,03,814 65,17,298

as work with bigger numbers: multiplication:

multip	licands: we r	null be careful and
1	te at every ster	Diam and
1	29 915	/FORD
1 January		(5983 x 5) (5983 x 70) (5983 x 400)
	S 841 925	

1 Copy and complete:

	1.63
<u> </u>	

x 834

x 540

2.405

B Write in vertical form and complete

d	no complete.
1. 3, 847 x 431 3	Q
9. 525 x 1567. 8	
6 338 x 827 4	2
- 7,346 x 398 7	5
5.174 x 872 X	X
10 103 4	8
11.627 x 196 3	5
14 085 x 25% I	50
≂3 158 x 13a	
18.967 x 232	X
	<i>147</i>)

····ibers: c... Want

Wast -			0.00
Dir example:	Carefully s	tep by slep:	The.
How many 56s in 822 Only 1	56	14,766	38
How many 56s In 266?		826,934 56 266	-
We guess 4: 56 x 4 = 224		429	
How many 56s in 429?		392	
We guess 7: 56 x 7 = 392	7.	374	
How many 56s in 373?	Remainder	336	
We guess 6: 56 x 6 = 336	•		

iong delision form al complete:





A Complete, working very

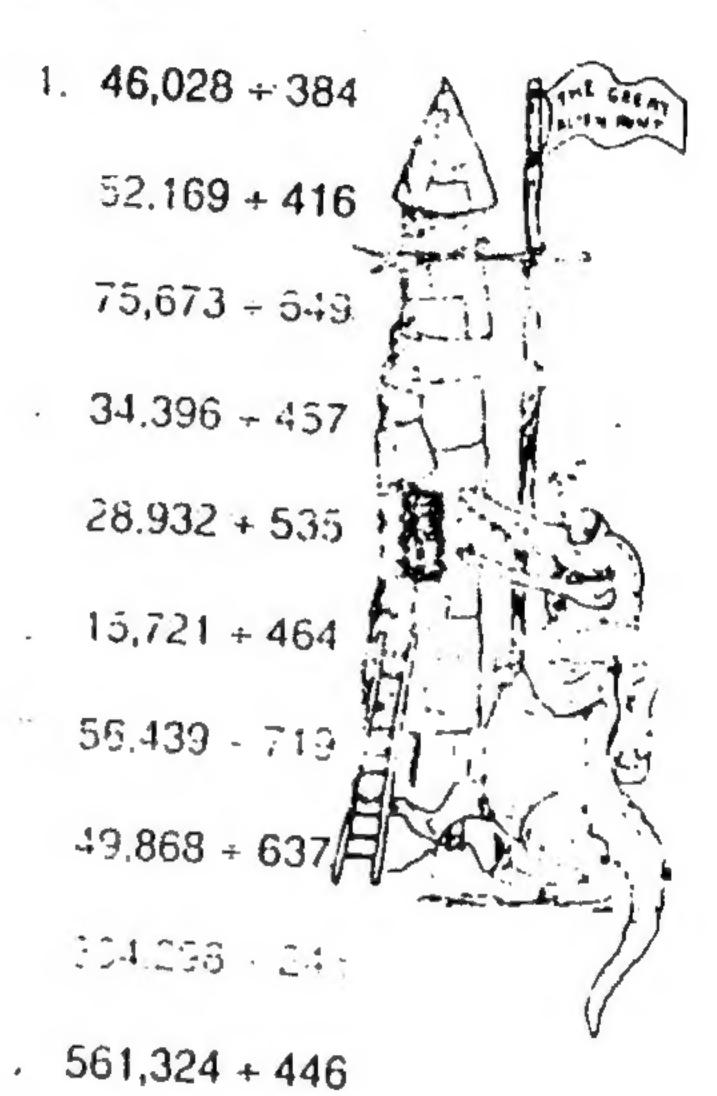
Our answer = 14,766 r 38

Copy and complete, working as carefully as you can:

Division: 3-cigit divisors.

	and the state of t
Chylsors	Now to work with 2-digit
work with 8 digit di	e same steps when we visors (or even blobe)
Our example: How many 381s in	A A COLLEGE
483? Easy: 11	381 \ 483.759
10277 Our guess: 3	381 1027 762
381 x 2 = 762 How many 381s in 26557 Guess: 7	2655
We guess 7: 381 x 7 = 2667	3699 Number 73429
381 x 6 = 2286 How many 381s in	r = 270
181 x 9 = 3429	
Jr answer = 1,269 r 2	270

B Write in long division form and complete:



the four operations: ordering (simplification).

We now know how to add, subtract, multiply and divide using very big numbers.

But so far we've been doing each of our four operations separately:

For example:

146,329

84,651

230,980

or $384 \times 100 = 38.400$

Sometimes, however, we need to do thour or more of our four operations to solve a sum.

Look at this example: _

$$9-6+3\times2+1=?$$

We need all four of our operations to solve this sum.

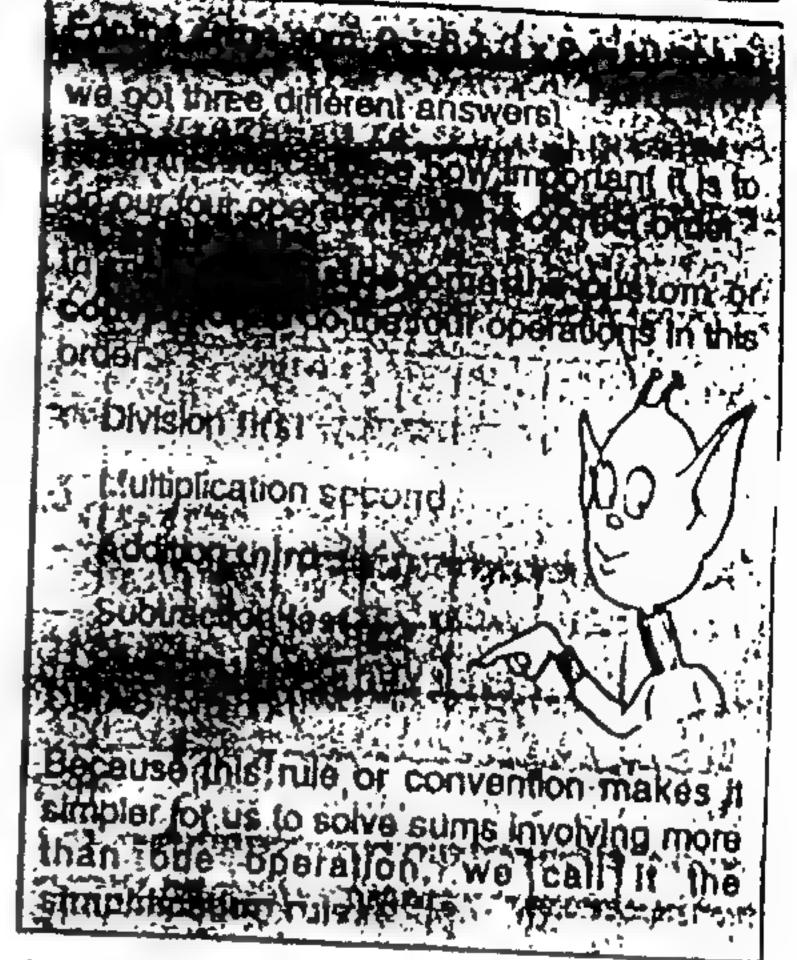
But in what order should we do them?

Let's see what happens when we solve the sum in 3 different ways:

2. We next divide: 3. We make a to	9 ~ 6 - 3 3 + 3 = 1 1 × 2 = 2 2 + 1 = 3
---------------------------------------	--

50.0	
1 We add 2 We multiply:	2+1=3 3x3=3
3. We divide	$6+9\approx\frac{\varepsilon}{3}=\frac{2}{3}$
4. Last we subtract:	$9-\frac{2}{3}=8\frac{1}{3}$

ululion 3	
1. We divide 2. We multiply 3. We subtract. 4. We add:	5-3=2 2x2=4 9-4=5 5+1=6
THE PART LESS CONTRACT	Answer = 6



A Using the simplification rule. DMAS

+ 9+3x4	- Compared 12 1 . Sec
	äddingj
4, 40	, - du mai,
* *	: 11 = 21
	Answer = 21

$$6+4-3$$

 $6\times5-5$
 $11+2\times8$
 $30+6+3$
 $58+2+12$
 $10-3-3$
 $12+3\times5$
 $12+3\times5$
 $16+8+2$



All Now simplify these, using your C. Remember your DMAS rule and DMAS rule:

- \star 16 8 + 4 (divide (irst) 8 + 4 = 2
- . 14. 5. E. T. 1.4
- 1 $12 \times 6 + 3$ 15 $\times 42 + 14$
- $7 \times 10^{-1} \times 10^{-1} \times 108 \times 12 \times 46^{-1}$

- $14 21 \div 3$ $20 16 \div 4$
- $458-24-8917+5\times20$
 - $70 8 + 2 = 10 81 4 \times 14$

We follow the same DMAS rule when we work with 3 different operations: -

examin'e:

From our DMAS rule, we know we should multiply first:

What we do "	Our sum becomes
1 Vie multiply. 2 x 4 = 3	ŝ · 3
2. Vin Yin	
3 We subtract 14 - 8 = 3	14-3=~
Answer 6	$+2 \times 4 - 8 = 6$

B Now simplify these:

- 3 x 2 8 5
- $128 4 + 12 \times 5$
- $6 \times 5 + 12 \div 4$
- $12 \times 4 + 6 + 2$
- $5.25 \div 5 + 4 \times 3$
 - $18 \times 6 \div 2 24$

simplify these:

- 1. $7+6+2\times18$
 - $9.5 \times 15 = 3 = 49$
 - $9 \cdot 121 \div 11 \div 5 \times 20$
 - $16+9-3\times2$
 - $= 8 \times 14 = 7 10$
 - $^{\circ}$ 25 + 35 ± 7 x 12
 - $34 + 12 \times 3 6$
 - $48 \times 3 102 + 14$

Let's now try a sum involving all four operations:

example: 12 x 4 + 6 + 2 -

What we do	Our sum brideme
1. We divide	12 14 . 15
12 x 4 = 11	1 3 11
3 We add 48 + 3 = 31	31-11
4 We subtract:	51 11 a
Apswer 12 k	4 + 5 2 - 11 = 40

Think carefully, then simplify

- $18 + 4 \times 6 \div 2 3$
 - 25 5 x 3 + 6 x 1?
 - 8 x 12 8 + 20 + 5
 - $31 + 24 + 8 \times 9 39$
- $= 45 \div 5 + 7 \times 11 29$
- $9 \times 12 + 18 \div 6 16$
- $14 + 28 7 \times 3 17$
- $-7 \times 50 + 32 \div 8 121$

So far, we've used brackets in sums involving conjutivo eperations, for example, addition and subtraction, subtraction and multiplication.

But they are also very helpful in more complex sums with three or even four

To help us decide the order in which to do the operations, we use three different types of brackets:

- 1. The
- 2. The dealer of the brackets
- 3. The square bracket:

If we find all three types of brackets used in a sum, we simplify in this order;

and

. 1

2

- 1. The part of the sum in the still 3...
- 2. The part in Accion
- 3. The part in

For example, look at this sum:

All three types of bracket are used.

We fire tackle the part in round brackets:

$$(8-4)=4$$

: we simplify the part in double brackets

$$\{16 + 4\} = 20$$

We the square trackets part

epmplete our simplification:

Working carefully, copy and simplify

$$4 + [15 - \{7 + (6 - 2)\}]$$

 $6 \cdot 2 = 3$ (round brackets)
 $4 + 5 = 9$
 $4 + 5 = 9$
 $24 - [5 + (8 - (9 - 6))]$

$$24 - [5 + (8 - (9 - 6))]$$

$$2 \times [18 - (6 + (9 + 3))]$$

$$(30 - (16 + 8)) \times 12$$

$$[100 - (80 + (20 \times 2))] + 3$$

$$80 + [10 \times (16 - (8 + 2))]$$

$$(45 + (83 \times 3)) = 10$$

$$(3 + (83 \times 3)) - 16$$

county and a selegion of the plant of divisibility. They helped us find out. is kly and easily, which factors make up a number (in other words, by what numbers it can be divided with on temaindiry

A Sid Spacewalker is trying to remember his rules of divisibility:



Heip him to do so by filling in the Elanks:

Any a moor with 5 or a in the column is divisible by 5.

-. Any Rich number must be dr. s.bie by 2.

A number whose digits add up to a multiple of 3 is divisible by =

All numbers which are divisible by 9 have digits that add up to a multiple

An example of a number which is divisible by 5 and by 10 is ____

- Which of these numbers is divisible
 - 149
- 306
- 5.481 \$2,602
- 6.073 ° 19.400
- C Which at those numbers is divisible
 - 1. 60303332
- 3. 7,155,534
- 2. 49 15 405
- 4. 17.03.700
- orrite down six 7-digit numbers which are divisible by 9.

(an easy ong!;

Look at these multiples of 10

100, 17,100, 300,640, 7,032,790

They all have a 0 in the units

- * Any number . .
- Tick the numbers which are divisible
 - 1, 4,960
- 4. 720.395
- 2. 3.701
- 5. 11.624.340
- 3. 11.000
- 6. 75,06,248

Test 6

Let's take the number 584, and look at the tens and units digits:

Can 84 (the number formed by the tens and units) be divided by 4?

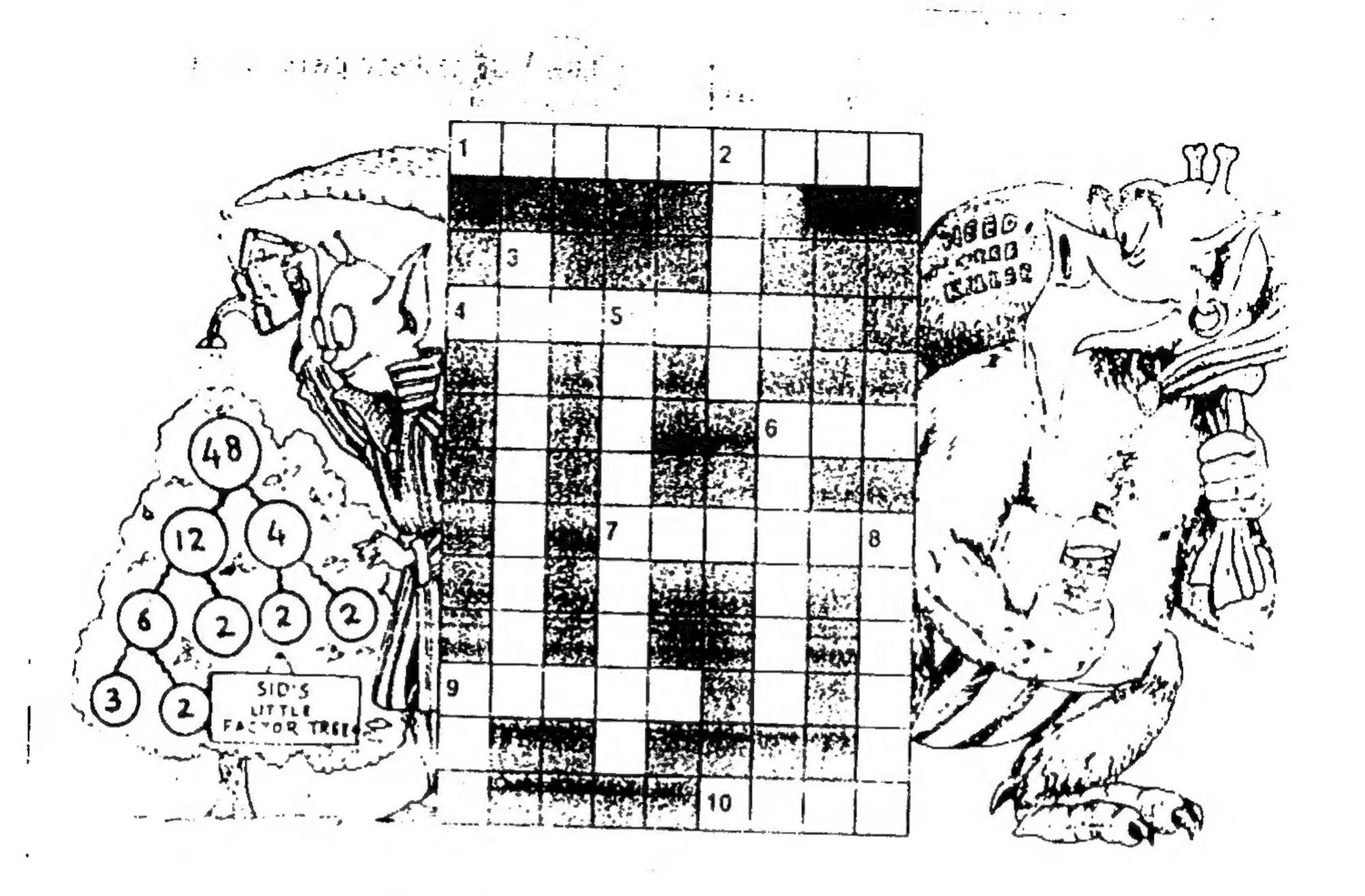
Yes, it can: 84 + 4 = 21

This tells us that 584, too, is divisible by 4.

We can divide to check:



- 146 584
- 18 16 24
- 584 + 4 = 146 r O
- A number is formed by the transition Francisco Care
- F. Which of these is divisible by 42
 - 629
- 23,050
- 3 436
- 1 17 305
- i 500 4. 17,504
- 200.072 8. 3,645,064



4. 6. 8. 10 and	12 are a	· atulla loot
the number 2.		

Two numbers which have any i as their common factor are called numbers.

All even numbers are multiples of

On a number line 1 12 to ---

On a number line 1-10 the next greatest prime number after five is

The number eight he said of

A number with any two different factors (itself and to shalle the Artifert and to shalle the Artifert number.

*. * / * * .

two different factors.

Amultiple is a number which can be to the company the contract of the contract

The LCM of 4 and 6 is __!II____

Number 1 is a <u>False</u> of every number.

12 43 13 and 30 are all multiples of the number 3